

Translation

PATENT COOPERATION TREATY

PCT/JP2003/009634



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

|   |   |  |
|---|---|--|
| Applicant's or agent's file reference<br>489-S03P1127   | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |  |
| International application No.<br>PCT/JP2003/009634  | International filing date (day/month/year)<br>30 July 2003 (30.07.2003)   | Priority date (day/month/year)<br>30 September 2002 (30.09.2002) |
| International Patent Classification (IPC) or national classification and IPC<br>G06F 7/00, 1/04 |   |  |
| Applicant<br>SONY CORPORATION   |   |  |

|   |
|---|
| <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>   |
| <p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p> |

|   |   |
|---|---|
| Date of submission of the demand<br>25 December 2003 (25.12.2003) | Date of completion of this report<br>06 September 2004 (06.09.2004) |
| Name and mailing address of the IPEA/JP                           | Authorized officer  |
| Facsimile No.   | Telephone No.   |

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/009634

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/09634

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

|                               |        |     |     |
|-------------------------------|--------|-----|-----|
| Novelty (N)                   | Claims | 5-8 | YES |
|                               | Claims | 1-4 | NO  |
| Inventive step (IS)           | Claims |     | YES |
|                               | Claims | 1-8 | NO  |
| Industrial applicability (IA) | Claims | 1-8 | YES |
|                               | Claims |     | NO  |

## 2. Citations and explanations

Document 1: JP, 8-147163, A (Toshiba Corp.), 7 June, 1996 (07.06.96)

The subject matter of claim 1 does not appear to be novel in view of document 1. Document 1 (paragraph 0042) describes that a controller bypasses a pipeline in response to the frequency of an operation clock. Furthermore, document 1 (paragraph 0046) describes that when a pipeline is bypassed, the register in the pipeline does not act for holding. So, it is considered that when a pipeline is not bypassed, the data held by the register is sent to the subsequent data processor as a matter of course.

The subject matter of claim 2 does not appear to be novel in view of document 1. Document 1 (Fig. 1) describes that plural holding means and plural bypass means are provided and connected in cascade.

The subject matter of claim 3 does not appear to be novel in view of document 1. Document 1 (paragraph 0042) describes that a controller sets a register enable signal for a register and a multiplexer into an active state or inactive state, for setting whether or not a pipeline should be bypassed.

The subject matter of claim 4 does not appear to be novel in view of document 1. Document 1 (paragraph 0046) describes that when a pipeline is bypassed, the register in the pipeline stops flip-flop action and does not act for holding.

The subject matter of claim 5 does not appear to involve an inventive step in view of document 1. Document 1 (paragraph 0021) describes that a controller controls the actions of a register and a multiplexer in response to the frequency of an operation clock. Furthermore, it would have been easy for a person skilled in the art that the controller produces frequency information in response to the frequency of the said operation clock.

The subject matter of claim 6 does not appear to involve an inventive step in view of document 1. Document 1 (paragraph 0021) describes that a controller controls the actions of a register and a multiplexer in response to the frequency of an operation clock. Furthermore, it would have been easy for a person skilled in the art that the controller receives frequency information from outside, for acquiring the frequency of the operation clock.

The subject matter of claim 7 does not appear to involve an inventive step in view of document 1. Document 1 (paragraph 0042) describes that when a processor is in a low clock mode for saving power consumption, a controller generates an instruction signal for bypassing a pipeline. Furthermore, it would have been easy for a person skilled in the art that a controller judges whether the frequency of the clock is high or low, to instruct whether or not the pipeline should be bypassed.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of : V.2

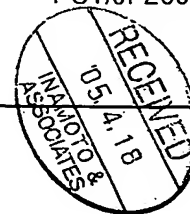
The subject matter of claim 8 does not appear to involve an inventive step in view of document 1. Document 1 (paragraph 0042) describes that when a processor is in a low clock mode for saving power consumption, a controller generates an instruction signal for bypassing a pipeline. Furthermore, it would have been easy for a person skilled in the art that a controller judges whether the frequency of the clock is high or low, to instruct whether or not the pipeline should be bypassed.

From the INTERNATIONAL BUREAU

**PCT**NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 72.2)

To:

INAMOTO, Yoshio  
711 Building 4F, 1-1-18, Nishi-Shinjuku 7-chome  
Shinjuku-ku, Tokyo 160-0023  
JAPON

|  |   |
|--|---|
| Date of mailing (day/month/year)<br>14 April 2005 (14.04.2005) |   |
| Applicant's or agent's file reference<br>489-S03P1127          | IMPORTANT NOTIFICATION  |
| International application No.<br>PCT/JP2003/009634             | International filing date (day/month/year)<br>30 July 2003 (30.07.2003) |
| Applicant<br>SONY CORPORATION et al                            |   |

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

US

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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